

OSHA Instruction STD 1-13.1
October 30, 1978
Office of Program Operations

February 14, 1972

OSHA PROGRAM DIRECTIVE #100-1

TO: National and Field Offices

SUBJECT: Reduction of Air Pressure Below 30 psi for Cleaning Purposes

ATTACHMENT: Acceptable Methods for Complying with 41 CFR 50-204.8 and 29 CFR 1910.242(b)

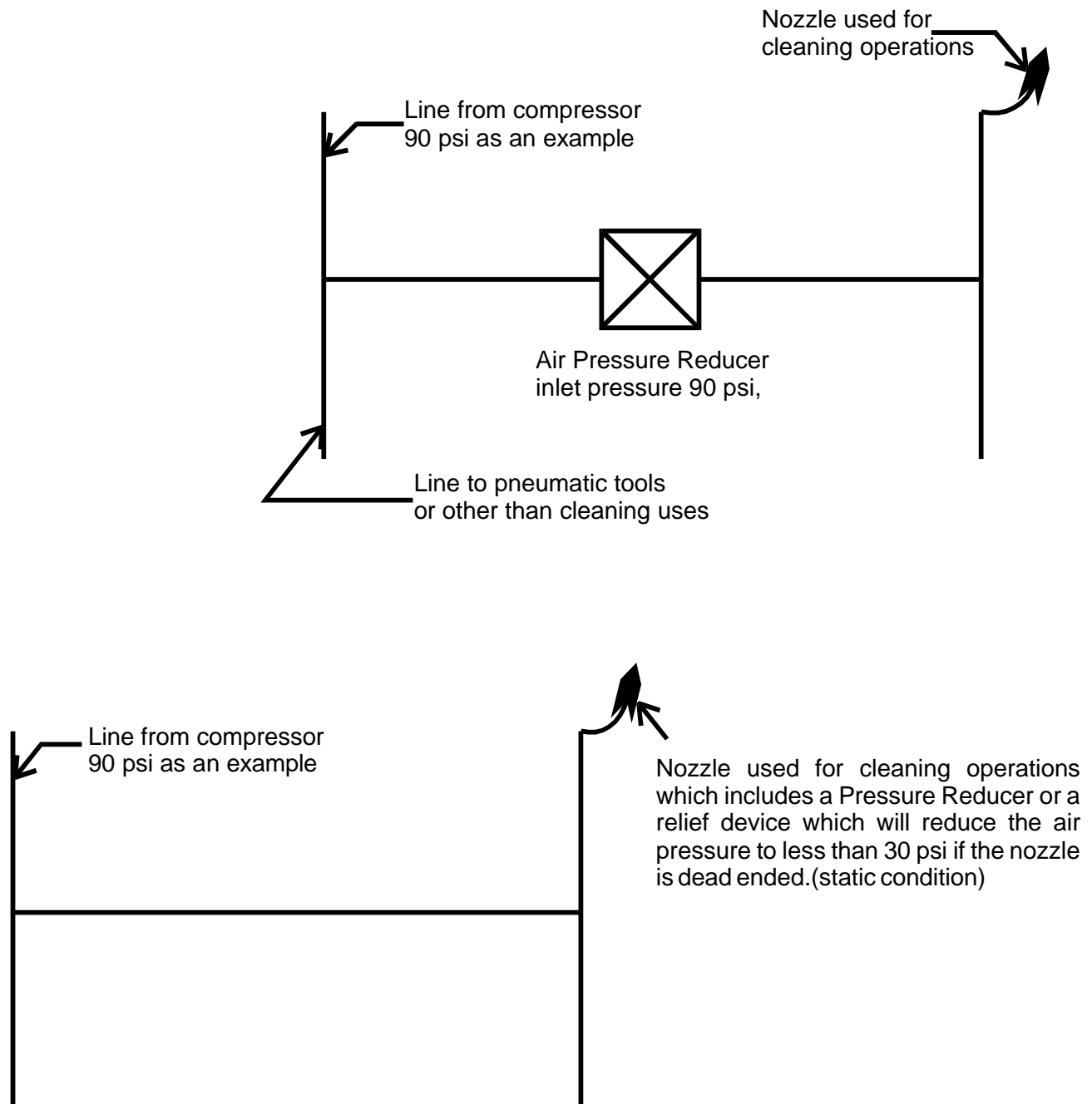
1. Purpose. To provide guidance and examples of what alternate systems will meet the requirements of this section, and to clarify its intent.
2. Background. A number of inquiries have been received requesting a clarification of the meaning of 1910.242(b) also known as 41 CFR 50-2048 under the Walsh-Healey Act.
3. Interpretation. The phrase "reduce to less than 30 psi" means that the downstream pressure of the air at the nozzle (nozzle pressure) or opening of a gun, pipe, cleaning lance, etc., used for cleaning purposes will remain at a pressure level below 30 psi for all static conditions. The requirements for dynamic flow are such that in the case when dead ending occurs a static pressure at the main orifice shall not exceed 30 psi. This requirement is necessary in order to prevent a back pressure buildup in case the nozzle is obstructed or dead ended. See enclosure (1) for two acceptable methods of meeting this requirement. Also, there is no intent to restrict the diameter of the nozzle orifice or the volume (CFM) flowing from it.

"Effective chip guarding" means any method or equipment which will prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other workers. Effective chip guarding may be separate from the air nozzle as in the case where screens or barriers are used. The use of protective cone air nozzles are acceptable in general for protection of the operator but barriers, baffles or screens may be required to protect other workers if they are exposed to flying chips or particles.

4. Action. Inquiries about subject section should be handled in accordance with this instruction.
5. Effective Date. This instruction is effective immediately, and will remain in effect until canceled or superseded.

Director, of Program Operations

Originator:OCSDG



The intent of the regulation is to allow for proper cleaning operations and to prevent chips and other waste materials from being blown into eyes or skin of the workers which may cause injuries. The design of the orifice and the velocity of the air passing out of the orifice or nozzle shall be such that it will not cause the waste material being cleaned away to be blown into the eyes or skin. Any relief vents or ports shall not be a hazard to the operator.